



FAA-E-2521
AMENDMENT-1
February 2, 1973

DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION SPECIFICATION

ELECTRICAL INSULATING GLOVES/TRANSFORMER LIQUIDS TESTER

This amendment forms a part of FAA-E-2521 dated 22 February 1972.

Page 3, paragraph 3.3.1: Delete last sentence and substitute therefor:

"The rating of the step-up transformer shall be sufficient to insure breakdown testing of transformer oils and askarels in accordance with the prescribed test procedures (Paragraph 3.6 Instruction Books)."

Page 4, paragraph 3.3.4: Delete last sentence and substitute therefor:

"A milliammeter shall be located on the control panel or on the electrical contact frame of the Glove Testing Device (Paragraph 3.4.3)."

Page 5, Paragraph 3.3.4.7: Delete title and text and substitute therefor:

"3.3.4.7 Milliammeter.- A 4½ inch, 2 percent accuracy milliammeter shall be furnished and shall be mounted on the control panel or the electrical contact frame. The meter shall indicate the current flowing in the glove test circuit of the instrument. It shall be possible to measure 30

milliammpares full scale. The scale shall be linearly divided into equally spaced divisions with emphasis marks provided every five divisions. The milliammeter shall be wired in series with the ground electrode of the glove test circuit and shunted so that the meter can be activated only by manually engaging the "push-to-read" contacts. The milliammeter shall be either internally or externally wired with resistive loads to protect the meter when operating."

Page 6, paragraph 3.3.4.8: Delete paragraph in its entirety.

Page 6, paragraph 3.3.6: Delete text and substitute therefor:

"The tester shall be equipped with a set of high voltage output terminals to accommodate the test cup (paragraph 3.3.5.1) and a set of low voltage primary terminals in the interlocking transfer receptacle (paragraph 3.3.6.2) which will facilitate using the tester in conjunction with the glove testing device (paragraph 3.4)."

Page 7, paragraph 3.3.6.1: Delete paragraph in its entirety.

After paragraph 3.3.6.1: Add new paragraph as follows:

"3.3.6.2 Interlocking Transfer Receptacle.- The tester shall be provided with an interlocking transfer receptacle and connecting low voltage power and control connections for transferring the tester from the liquids testing mode to the glove testing mode."

Page 7, paragraph 3.4: Delete text and substitute therefor:

"The glove testing device shall be an accessory item which can be used readily in conjunction with the basic tester. The item shall consist of a test tank, a glove harness, an electrical contact frame, a step-up transformer power supply and control cable, and a carrying case (Paragraph 3.5) for transporting and storing the device while not being used."

Page 8, paragraph 3.4.3: Delete first six lines of paragraph and substitute therefor:

"3.4.3 Electrical Contact Frame.- An electrical contact frame shall be provided which shall be supported on and by the test tank. A step-up transformer (paragraph 3.4.3.1) shall be mounted on the electrical contact frame and be provided with a rigid, high voltage test probe. The high voltage test probe shall provide a low impedance path for the flow of electrical current to the "hot" electrode, (the water inside the test glove)."

After paragraph 3.4.3: Add new paragraph as follows:

"3.4.3.1 Step-up Transformer.- The step-up transformer shall be of such design and size as to provide a high voltage output of at least 30 kilovolts, 60 Hz single phase. Crest features shall meet the requirements stated in paragraph 3.3.1, above. The rating of the step-up transformer shall be sufficient to insure breakdown and proof testing of Class III electrical insulating gloves in accordance with the prescribed test procedures (paragraph 3.6 Instruction Books)."

Page 8, paragraph 3.4.4: Delete paragraph in its entirety.

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